rocedures for cross-connection or backflow device installations within a building:

- Obtain the results of the most current cross connection survey completed by the Village of Broadview. This report will indicate changes or upgrades required. Submit a copy with the application.
- 2. Determine who will perform the required work. A State of Illinois Licensed Plumber is required to obtain the permit and to perform the work. Provide a copy of the 055- license with the application.
- 3. If there is work required on the fire sprinkler system, that work must be performed by an Illinois Licensed Sprinkler Contractor. The sprinkler contractor cannot perform the work on any backflow device.
- 4. Fill out the application for a backflow device installation permit. If there are multiple devices, file the additional sheet(s) for each additional device.
- 5. The application shall include catalog cut sheets for each backflow device being installed.
- 6. Indicate the required expansion tanks for all water heaters.
- Indicate the area of discharge and approved receptor for any back flow device.
- 8. Changes to the fire protection system made necessary by this work shall be approved by the Broadview Fire Department.
- 9. The permit application shall be reviewed for compliance with all municipal, state and federal code requirements. Any deficiencies on the application or information submitted will require correction and resubmittal.
- 10. When the submittal is approved and the indicated fees paid, the permit will be issued. The application and supporting documentation, when approved, shall constitute the required Letter of Intent and the plan review.
- 11. When all work is complete, call for a final inspection and testing of all cross connection devices. All testable backflow devices within a building shall be scheduled and tested on the same day. The Village backflow device tester shall test each new and existing testable device.
- 12. If the building has a fire sprinkler system and an upgraded backflow device is being installed, see the separate page of additional information required to be submitted with that application.

APPLICATION for BACKFLOW DEVICE INSTALLATION PERMIT

Application Date:		Permit l	Permit Number:		
Company: Contact telephone Number:					
Installation	address:	ddress, billing address or home office	S II * II		
Plumber re	esponsible for this w	ork (NAME):	a		
Plumbing (Contractor Registrat	ion Number (055-):			
Principal's	License Number (05	58-/PL):	= "		
Plumber's	e-mail address:	15			
Device to b	e installed:				
Туре	Size	Manufacturer and Model	Orientation or Pattern		
e.g. fire protec	ction system, lawn irriga	em or equipment): tion system, process piping, sanitation ions or flow data for pipe schedu			
Name	Credential	Company	Contact telephone number		
approved, the calculated ar and the supp plan review.	e installation plan and nd paid. Work may be orting documentation	when the fire sprinkler system hyd device specifications have been a gin at any time following issuance of when approved shall constitute the	pproved and the permit fee of the permit. This application a required Letter of Intent and the		
2. The p	lumbing contractor she time of all inspection	nall make the Manufacturer's Install s beginning the first day of work.	ation Instructions available at the		

- 3. The plumbing contractor shall contact the plumbing inspector at least 24 hours prior to the start of work to notify the Village of the start date.
- 4. The plumbing contractor shall call for an inspection and testing of all devices when all work is complete. All testing for multiple devices at one address shall be performed on the same day.
- 5. If the project has multiple new devices at the same address, complete the additional sheets.
- 6. Fees established are based on the information submitted. Additional work found in the field or re-inspections will require additional incurred fees.

Sheet	of	

APPLICATION for BACKFLOW DEVICE INSTALLATION PERMIT Additional device sheet

Additiona	I device # 1		1
Device to	be installed:	s	> n ←
Type	Size	Manufacturer and Model	Orientation or Pattern
2.			One manor of Fattern
e.g. fire prot	ection system, lawn	ystem or equipment): irrigation system, process piping, sanitat	
	device #	—	
Device to I	be installed:		
		Manufacturer and Model	Orientation or Pattern
Device to be.g. fire prote	ection system, lawn ii	/stem or equipment):rigation system, process piping, sanitati	
Device to be given	oe installed on (syection system, lawn in	/stem or equipment):rigation system, process piping, sanitati	on system, dialysis, other equipmer
Device to be general forms of the device to be device to be detected by the device to be device to be device to be device to be deviced to be	oe installed on (syection system, lawn in	vstem or equipment):	on system, dialysis, other equipmer
Device to be given by the device to be given	pe installed on (syection system, lawn indexice # be installed: Size e installed on (sy	vstem or equipment): rigation system, process piping, sanitation Manufacturer and Model stem or equipment):	Orientation or Pattern
Device to be generally device to be generally be deviced to be generally be deviced to	pe installed on (syection system, lawn in device # be installed: Size e installed on (syettion system, lawn in	vstem or equipment): rigation system, process piping, sanitations Manufacturer and Model	Orientation or Pattern
Device to be a grant of the control	pe installed on (syection system, lawn in device # be installed: Size e installed on (syettion system, lawn in	vstem or equipment): rigation system, process piping, sanitation Manufacturer and Model stem or equipment): igation system, process piping, sanitation	Orientation or Pattern
Device to be a g. fire protect to be g. fire protect to be g. fire protect to be g. fire protect to deditional deditional design of the protect to be g. fire protect to be g. f	pe installed on (syection system, lawn indevice # be installed: Size e installed on (syection system, lawn indexical)	vstem or equipment): rigation system, process piping, sanitation Manufacturer and Model stem or equipment): igation system, process piping, sanitation	Orientation or Pattern
Additional of the protect of the pro	pe installed on (syection system, lawn indevice # Size e installed on (syection system, lawn indevice #	vstem or equipment): rigation system, process piping, sanitation Manufacturer and Model stem or equipment): igation system, process piping, sanitation	Orientation or Pattern
Device to be g. fire protection of the protectio	pe installed on (syection system, lawn indevice # Size e installed on (syection system, lawn indevice #	vstem or equipment): rigation system, process piping, sanitation Manufacturer and Model stem or equipment): igation system, process piping, sanitation	Orientation or Pattern

Sheet ____ of ____

APPLICATION for BACKFLOW DEVICE INSTALLATION PERMIT FIRE SPRINKLER INFORMATION

One of the following will be required based on the existing fire sprinkler system design.

- 1. If the existing sprinkler system can absorb the additional friction loss and comply submit the following:
 - a. List of hazard classifications in the building;
 - b. Hydraulic design criteria used in the building;
 - Catalog cut sheet for the new backflow device showing the friction loss based on the system flows;
 - d. Existing hydraulic calculations with the line showing the loss for the existing cross connection device and
 - e. Calculation showing the impact with the new cross connection device.
- 2. If the existing system will be out of compliance with a new cross connection device, submit the following:
 - a. List of hazard classifications in the building;
 - b. Hydraulic design criteria used in the building;
 - c. Revised sprinkler plan showing the changes to the sprinkler system;
 - d. Revised hydraulic calculations showing the changes to the sprinkler system;
 - e. Current water flow information.
 - f. An inspection of the system changes will be required by the Fire Department.
- 3. If the existing building has a pipe schedule system submit the following a only or b
 - a. Submit complete hydraulic calculations for the existing system and a set of sprinkler plans. All information required to verify the accuracy of the sprinkler calculation have to be submitted.
 - b. Submit the following with a calculation showing the pipe schedule is in compliance with NFPA 13;

Current water flow information;

Hazard classification/s of the building:

Height above grade for the highest sprinkler;

Catalog cut of the new cross connection device showing applicable friction loss; Calculation showing the residual pressure at the highest sprinkler with the water flows and pressures from NFPA 13.

Pipe Schedule Minimum Pressure Verification Form (Use this form for calculating systems constructed under pipe schedule regulations)

Business Information		
Name:		
Name:		ĕ
City: State: _		
Contact Representative:		
Telephone Number:		
Available Water Pressure (City and/or Fire Pr	ump*)	
Static Pressure:		
Residual Pressure:		
Flow:		
Test Date:		
Friction Loss Information		
Elevation of the highest sprinkler:(1 Static pressure friction loss for new backflow devi	ft) x .433 (psi/ft) = (psi) ce**:	s)
Available residual Pressure Total psi loss	Remaining residual pressure	
·		
	Minimum Residual Pressure Required	
Occupancy classification:Light hazard	20psi	
Ordinary nazard	20psi	
*		
	*	; ;
e e		
Provide annual test report for the fire pump *Provide specification material for new back-flow	device	
Applicant Signature:	Date:	

Sheet ___ of ___